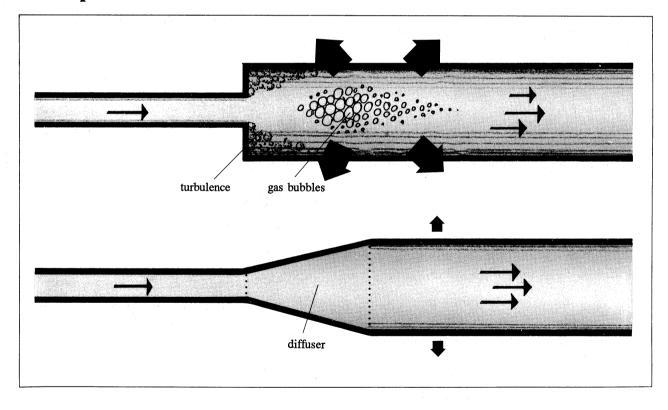
## ABRUPT CHANGES IN AREA PRODUCE NOISE

Turbulence will be created if the cross-sectional area liquid-filled pipe increases rapidly, and gas released in the form of bubbles produces a roaring sound. This sound can be reduced by avoiding rapid changes in cross-sectional area within the piping system.

## **Principle**



## Application with control valves for liquid systems

